(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



53331

(43) International Publication Date 13 May 2004 (13.05.2004)

(10) International Publication Number WO 2004/040061 A1

- (51) International Patent Classification⁷: C01B 39/02
- D21H 17/68,
- (21) International Application Number:

PCT/GB2003/004593

- (22) International Filing Date: 22 October 2003 (22.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0225177.5

30 October 2002 (30.10.2002)

- (71) Applicant (for all designated States except US): INEOS SILICAS LIMITED [GB/GB]; Bank Quay, Warrington, Cheshire WA5 1AB (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TOFT, Alexis, John [GB/GB]; Parkside, Stockport Road, Thelwall, Warrington, Cheshire WA4 2SZ (GB): STEBBING, Simon. Richard [GB/GB]; 53 Kinross Close, Fearnhead, Warrington, Cheshire WA2 OUT (GB). ELLISON, Stephen, George [GB/GB]; 6 Camborne Road, Burtonwood, Warrington, Cheshire WA5 5LX (GB).

- (74) Agents: MCCALLUM, Graeme, David et al.; Lloyd Wise, McNeight & Lawrence, Highbank House, Exchange Street, Stockport, Cheshire SK3 0ET (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: STABILISED ALUMINOSILICATE SLURRIES

(57) Abstract: An aqueous slurry according to the invention comprises (a) a crystalline aluminosilicate represented by the empirical formula M2hO Al2O3, xSiO2, yH2O wherein M represents a first metal moiety, said first metal having a valency of n, x indicates the ratio of atoms of silicon to atoms of aluminium and y indicates the ratio of molecules of water to atoms of aluminium, (b) a salt of a second metal selected from the group consisting of Group III metals, metallic elements of Group IV, magnesium, titanium, chromium, iron, nickel, copper, zinc, zirconium and silver, said salt of a second metal being present in an amount which is sufficient to replace from about 2.0 to about 40 per cent by weight of the first metal moiety, and (c) particulate silica having a BET surface area greater than 500 m²/g and a pore volume, as measured by nitrogen manometry of less than 2.1 cm³/g. The slurry is stable on storage but has a low viscosity at low shear rate.

